

Claims

1. Method for transmitting messages in a communication network with the following steps:

Transmission of a transmission message (MM1_submit.REQ; MMA) with one or more useful data objects (MME) to a switching component (VK) for forwarding to a first telecommunication device (MFG2);

Creation of a plurality of variants of the one or more useful data objects (MME) in the switching component as a function of a set of parameters;

Informing the first telecommunication device (MFG2) of the availability of a plurality of variants of the one or more useful data objects for transmission to the first telecommunication device.

2. Method according to claim 1, with the following steps:

Transmission of a delivery request message (MM1_retrieve.REQ) relating to a specific variant of the one or more useful data objects from the first telecommunication device (MFG2) to the switching component (VK);

Transmission of a delivery message (MM1_retrieve.RES) with the requested variant of the one or more useful data objects from the switching component (VK) to the first telecommunication device.

3. Method according to claim 1 or 2, in which the first telecommunication device is informed by means of the following

steps:

Generation of respective recipient notification messages (MM1_notification.REQ(s)) assigned to a specific variant of the one or more useful data objects and

Transmission of the respective recipient notification messages (MM1_notification.REQ(s)) from the switching component (VK) to the first telecommunication device (MFG2).

4. Method according to claim 1 or 2, in which the set of parameters includes parameters with information about the individual characteristics of the telecommunication device and in particular about applications provided on the telecommunication device.

5. Method according to one of claims 1 to 4, in which the set of parameters includes parameters with information about the individual preferences of the recipient.

6. Method according to one of claims 1 to 5, in which the set of parameters includes parameters with descriptive information, which includes the significance of useful data objects contained in the transmission message and/or the relationships between contained useful data objects.

7. Method according to one of claims 1 to 6, in which the transmission message (MM1_submit.REQ; MMA) is transmitted from a second telecommunication device (MFG1) to the switching component (VK).

8. Method according to one of claims 1 to 7, in which the messages (MM1_submit.REQ; MM1_notification.REQ;

MM1_retrieve.REQ; MM1_retrieve.RES) are transmitted in the context of the multimedia messaging service (MMS) between the first telecommunication device (MFG2) and the switching component (VK) and/or the second telecommunication device (MFG1) and the switching component (VK).

9. Method according to one of claims 1 to 8, in which the messages to and from the first telecommunication device and/or the second telecommunication device are sent via an air interface.

10. Method according to claim 9, in which the first and/or second telecommunication device comprises a radio module and is configured in particular as a mobile telephone, a cordless telephone or a portable computer.

11. Method according to claim 9 or 10, in which messages to and from the first and/or second telecommunication device are transmitted by means of the WAP protocol WSP and/or the hypertext transfer protocol (http).

12. Method according to one of claims 1 to 11, in which the first telecommunication device is part of a first telecommunication network.

13. Method according to claim 12, in which the first telecommunication network is configured as a mobile radio network, operating in particular according to the GSM, GPRS, EDGE, UMTS or CDMA standard.

14. Method according to one of claims 12 or 13, in which the switching component is configured as part of a second telecommunication network connected to the first

telecommunication network, which is configured in particular as a telecommunication network based on internet protocols, such as the hypertext transfer protocol.

15. Method according to claim 14, in which the first and second telecommunication networks are connected together by means of a connecting component, which is configured in particular as a WAP gateway.

16. Method according to one of claims 1 to 10, in which the recipient notification message is transmitted to the telecommunication device by WAP push.

17. Method according to one of claims 1 to 16, in which the switching component (VK) is configured as an MMS relay server (MRS1; MRS2).

18. Method according to one of claims 2 to 17, in which the recipient notification messages, which are assigned to variants of useful data objects of a specific transmission message, have specific standard identification information.

19. Method according to one of claims 2 to 18, in which the recipient notification messages, which are assigned to variants of useful data objects of a specific transmission message, have total information, indicating the total number of recipient notification messages generated by the switching component for the variants of the one or more useful data objects of a transmission message.

20. Method according to claim 2 to 19, in which the respective different recipient notification messages have sequence information, which contains the sequence of the

variants of the one or more useful data objects generated by the switching component.

21. Method according to one of claims 2 to 20, in which the respective different recipient notification messages have differentiation information, which indicates whether a variant of a useful data object assigned to a respective recipient notification message is the original variant contained in the transmission message or a modified variant.

22. Method according to one of claims 2 to 21, in which it is clear from the sequence information in the respective different recipient notification messages which of the recipient notification messages relates to the unmodified original version of the at least one useful data object or the transmission message.

23. Method according to one of claims 18 to 22, in which the identification information and/or the total information and/or the sequence information is provided under a respectively independent header field in a recipient notification message.

24. Method according to one of claims 18 to 22, in which the identification information and/or the total information and/or the sequence information together is coded in a recipient notification message.

25. Method according to one of claims 18 to 24 in which the identification information and/or the total information and/or the sequence information is processed by the first telecommunication device on receipt of a respective recipient notification message.

26. Method according to claim 25, in which the different possible variants for transmission by the switching component are displayed on a user interface so that a user can select one or more variants and request transmission by the switching component.

27. Method according to one of claims 1 to 26, in which the useful data objects (MME) contain text information, audio information, video information, executable programs, software modules or a combination of such information.

28. Telecommunication arrangement comprising a switching component (VK) and at least a first telecommunication device, the telecommunication arrangement being designed to implement a method according to one of claims 1 to 27.